

Section II  
Soil and Site Information

Construction Materials Table 2  
McCook County, South Dakota

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The ratings given for the thickest layer are for the thickest layer above and excluding the bottom layer. The numbers in the value columns range from 0.00 to 0.99. The greater the value, the greater the likelihood that the bottom layer or thickest layer of the soil is a source of sand or gravel. See text for further explanation of ratings in this table.)

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Ba: Baltic-----	85	Poor Too clayey Water erosion	0.00 0.99	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.20	Poor Depth to saturated zone Too Clayey	0.00 0.00
Bb: Baltic-----	90	Poor Too clayey Water erosion	0.00 0.99	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.20	Poor Depth to saturated zone Too Clayey	0.00 0.00
BcE: Betts-----	85	Fair Low content of organic matter Carbonate content	0.50 0.92	Poor Slope Low strength Shrink-swell	0.00 0.00 0.87	Poor Slope Carbonate content	0.00 0.92
BdB: Blendon-----	85	Good		Good		Good	
Bo: Bon-----	85	Good		Good		Good	
Ca: Chaska-----	90	Good		Fair Depth to saturated zone	0.53	Fair Depth to saturated zone	0.53
Cb: Clamo-----	85	Poor Too clayey Water erosion	0.00 0.99	Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.12	Poor Too Clayey Depth to saturated zone	0.00 0.00

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
CcB: Clarno-----	85	Fair Low content of organic matter Water erosion	0.50 0.99	Poor Low strength Shrink-swell	0.00 0.87	Good	
CcC: Clarno-----	80	Fair Low content of organic matter Water erosion	0.50 0.99	Poor Low strength Shrink-swell	0.00 0.87	Good	
CdA: Clarno-----	50	Fair Low content of organic matter Water erosion	0.50 0.99	Poor Low strength Shrink-swell	0.00 0.87	Good	
Bonilla-----	30	Fair Low content of organic matter	0.50	Poor Low strength Shrink-swell	0.00 0.87	Good	
CeB: Clarno-----	50	Fair Low content of organic matter Water erosion	0.50 0.99	Poor Low strength Shrink-swell	0.00 0.87	Good	
Davison-----	30	Fair Low content of organic matter Carbonate content Water erosion	0.50 0.84 0.99	Fair Low strength Shrink-swell Depth to saturated zone	0.22 0.87 0.98	Fair Depth to saturated zone	0.98
CfA: Clarno-----	40	Fair Low content of organic matter Water erosion	0.50 0.99	Poor Low strength Shrink-swell	0.00 0.87	Good	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Davison-----	30	Fair Low content of organic matter Carbonate content Water erosion	0.50 0.84 0.99	Fair Low strength Shrink-swell Depth to saturated zone	0.22 0.87 0.98	Fair Depth to saturated zone	0.98
Crossplain-----	20	Poor Too clayey Water erosion	0.00 0.99	Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.55	Poor Too Clayey Depth to saturated zone	0.00 0.00
ChB: Clarno-----	50	Fair Low content of organic matter Water erosion	0.50 0.99	Poor Low strength Shrink-swell	0.00 0.87	Good	
Ethan-----	40	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.68 0.99	Poor Low strength Shrink-swell	0.00 0.87	Fair Carbonate content	0.97
Ck: Crossplain-----	85	Poor Too clayey Water erosion	0.00 0.99	Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.55	Poor Too Clayey Depth to saturated zone	0.00 0.00
Co: Crossplain-----	45	Poor Too clayey Water erosion	0.00 0.99	Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.55	Poor Too Clayey Depth to saturated zone	0.00 0.00
Clarno-----	40	Fair Low content of organic matter Water erosion	0.50 0.99	Poor Low strength Shrink-swell	0.00 0.87	Good	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Cr: Crossplain-----	55	Poor Too clayey Water erosion	0.00 0.99	Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.55	Poor Too Clayey Depth to saturated zone	0.00 0.00
Dudley-----	25	Poor Sodium content Too clayey Salinity	0.00 0.00 0.50	Poor Low strength Shrink-swell	0.00 0.12	Poor Sodium content Too Clayey Salinity	0.00 0.00 0.50
DaA: Davis-----	85	Good		Poor Low strength	0.00	Good	
DaB: Davis-----	95	Good		Poor Low strength	0.00	Good	
Dd: Davison-----	45	Fair Low content of organic matter Carbonate content Water erosion	0.50 0.84 0.99	Fair Low strength Shrink-swell Depth to saturated zone	0.22 0.87 0.98	Fair Depth to saturated zone	0.98
Crossplain-----	40	Poor Too clayey Water erosion	0.00 0.99	Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.55	Poor Too Clayey Depth to saturated zone	0.00 0.00
DeB: Delmont-----	85	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.83	Good		Poor Too sandy Rock fragments Hard to reclaim	0.00 0.00 0.32

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
DnA: Delmont-----	60	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.83	Good		Poor Too sandy Rock fragments Hard to reclaim	0.00 0.00 0.32
Enet-----	30	Poor Too sandy Low content of organic matter	0.00 0.12	Good		Poor Too sandy Rock fragments Hard to reclaim	0.00 0.00 0.82
EaC: Egan-----	60	Fair Low content of organic matter Water erosion	0.50 0.90	Poor Low strength Shrink-swell	0.00 0.87	Good	
Ethan-----	30	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.68 0.99	Poor Low strength Shrink-swell	0.00 0.87	Fair Carbonate content	0.97
EbC: Ethan-----	85	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.68 0.99	Poor Low strength Shrink-swell	0.00 0.87	Fair Carbonate content	0.97
EcD: Ethan-----	60	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.68 0.99	Poor Low strength Shrink-swell	0.00 0.87	Fair Slope Carbonate content	0.37 0.97
Betts-----	30	Fair Low content of organic matter Carbonate content	0.50 0.92	Poor Low strength Shrink-swell	0.00 0.87	Fair Slope Carbonate content	0.37 0.92

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
HaB: Hand-----	85	Fair Low content of organic matter	0.12	Fair Shrink-swell	0.94	Good	
HbA: Hand-----	55	Fair Low content of organic matter	0.12	Fair Shrink-swell	0.94	Good	
Bonilla-----	30	Fair Low content of organic matter	0.50	Poor Low strength Shrink-swell	0.00 0.87	Good	
HcB: Hand-----	50	Fair Low content of organic matter	0.12	Fair Shrink-swell	0.94	Good	
Davison-----	30	Fair Low content of organic matter Carbonate content Water erosion	0.50 0.84 0.99	Fair Low strength Shrink-swell Depth to saturated zone	0.22 0.87 0.98	Fair Depth to saturated zone	0.98
HdA: Hand-----	35	Fair Low content of organic matter	0.12	Fair Shrink-swell	0.94	Good	
Davison-----	35	Fair Low content of organic matter Carbonate content Water erosion	0.50 0.84 0.99	Fair Low strength Shrink-swell Depth to saturated zone	0.22 0.87 0.98	Fair Depth to saturated zone	0.98
Crossplain-----	25	Poor Too clayey Water erosion	0.00 0.99	Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.55	Poor Too Clayey Depth to saturated zone	0.00 0.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
HeB: Hand-----	55	Fair Low content of organic matter	0.12	Fair Shrink-swell	0.94	Good	
Ethan-----	30	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.68 0.99	Poor Low strength Shrink-swell	0.00 0.87	Fair Carbonate content	0.97
HuA: Huntimer-----	85	Poor Too clayey Low content of organic matter Water erosion	0.00 0.50 0.99	Poor Low strength Shrink-swell	0.00 0.12	Poor Too Clayey	0.00
La: Lamo-----	90	Fair Low content of organic matter Water erosion	0.88 0.90	Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.53 0.87	Fair Depth to saturated zone	0.53
M-W: Miscellaneous Water-	100	Not rated		Not rated		Not rated	
Sa: Salmo-----	85	Fair Salinity Carbonate content Sodium content Too clayey	0.88 0.97 0.97 0.98	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to saturated zone Salinity Sodium content Too Clayey	0.00 0.00 0.98 0.98

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
TaD: Talmo-----	45	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.24	Good		Poor Too sandy Rock fragments  Hard to reclaim Slope	0.00 0.00  0.00 0.63
Betts-----	40	Fair Low content of organic matter Carbonate content	0.50 0.92	Poor Low strength  Shrink-swell	0.00 0.87	Fair Slope  Carbonate content	0.63 0.92
Tb: Tetonka-----	85	Poor Too clayey  Water erosion	0.00 0.99	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.21	Poor Depth to saturated zone Too Clayey	0.00 0.00
Tc: Tetonka-----	60	Poor Too clayey  Water erosion	0.00 0.99	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.21	Poor Depth to saturated zone Too Clayey	0.00 0.00
Canisteo-----	35	Fair Low content of organic matter	0.88	Poor Depth to saturated zone	0.00	Poor Depth to saturated zone	0.00
Td: Trent-----	85	Fair Low content of organic matter Water erosion	0.88 0.90	Poor Low strength  Shrink-swell	0.00 0.94	Good	
TeD: Talmo-----	90	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.24	Good		Poor Too sandy Rock fragments  Hard to reclaim Slope	0.00 0.00  0.00 0.63



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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
W: Water-----	100	Not rated		Not rated		Not rated	
WaA: Wentworth-----	85	Fair Low content of organic matter Water erosion	0.50 0.90	Poor Low strength Shrink-swell	0.00 0.87	Good	
WbB: Wentworth-----	85	Fair Low content of organic matter Water erosion	0.50 0.90	Poor Low strength Shrink-swell	0.00 0.87	Good	
WcB: Wentworth-----	60	Fair Low content of organic matter Water erosion	0.50 0.90	Poor Low strength Shrink-swell	0.00 0.87	Good	
Ethan-----	30	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.68 0.99	Poor Low strength Shrink-swell	0.00 0.87	Fair Carbonate content	0.97
WdA: Wentworth-----	45	Fair Low content of organic matter Water erosion	0.50 0.90	Poor Low strength Shrink-swell	0.00 0.87	Good	
Trent-----	35	Fair Low content of organic matter Water erosion	0.88 0.90	Poor Low strength Shrink-swell	0.00 0.94	Good	
Tetonka-----	15	Poor Too clayey Water erosion	0.00 0.99	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.21	Poor Depth to saturated zone Too Clayey	0.00 0.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Wh: Whitewood-----	85	Fair Water erosion	0.90	Poor Low strength  Depth to saturated zone Shrink-swell	0.00  0.00 0.87	Poor Depth to saturated zone	0.00
Wo: Worthing-----	85	Poor Too clayey  Water erosion	0.00  0.99	Poor Depth to saturated zone Low strength  Shrink-swell	0.00 0.00 0.12	Poor Too Clayey  Depth to saturated zone	0.00  0.00

